

## Trillion Asscher

by Arya Akhavan (March 2014)

Angles for R.I. = 1.580

55 + 12 girdles = 67 facets

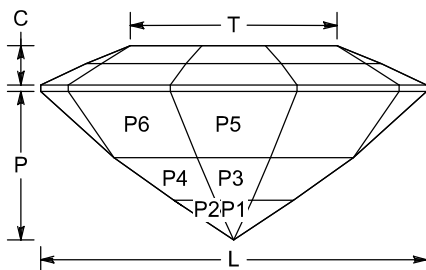
3-fold, mirror-image symmetry

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L/W = 1.089 T/W = 0.582 U/W = 0.544

P/W = 0.418 C/W = 0.110

Vol./W<sup>3</sup> = 0.175



### PAVILION

P1	42.78°	96-32-64	Cut to centerpoint.
P2	41.00°	03-29-35-61-67-93	Meet at culet.
G1	90.00°	96-32-64	Set stone size.
G2	90.00°	03-29-35-61-67-93	Level girdle.
P3	44.80°	96-32-64	Establish step to 1/3 culet-to-girdle distance.
P4	43.01°	03-29-35-61-67-93	Meet P1, P2, P3
P5	46.80°	96-32-64	Establish step to 2/3 culet-to-girdle distance.
P6	45.01°	03-29-35-61-67-93	Meet P3, P4, P5
P7	43.85°	16-48-80	Meet P4, P6
G3	90.00°	16-48-80	Level girdle.

### CROWN

C1	30.00°	96-32-64	Set girdle width.
C2	28.47°	03-29-35-61-67-93	Level girdle.
C3	25.03°	16-48-80	Level girdle.
C4	25.72°	96-32-64	Establish step to 1/4 culet-to-girdle distance.
C5	24.35°	03-29-35-61-67-93	Meet C1, C2, C4
C6	22.91°	16-48-80	Meet C2, C3, C5
T	0.00°	Table	Meet C5, C6

This design was written for Jordan Wilkins, for a specific piece of tourmaline rough that a client wanted cut in a trillion. As much as I dislike step cuts, I have to say, this one actually looks pretty damn good. I'm surprised.

Works in materials from beryl to rutile (RI = 1.58 - 2.62) with no changes, but gets crazy in higher RIs.

Suggested size = 6-12 mm

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